

# Eric D. Hagedorn

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## Work Experience:

<b>Senior Reliability Engineer</b> - Dow Corning Corporation	2012-Present	Carrollton, KY
<ul style="list-style-type: none"><li>Perform Root Cause Investigations on equipment failures, both developing and implementing recommendations.</li><li>Lead procurement of process equipment, piping and components, instrumentation, and technologies. This includes vendor qualification, shop visits, final testing, and final inspections.</li><li>Active member of the global Material of Construction Engineering Expertise Team, creating, modifying, and updating engineering standards and technical documents.</li><li>Gather, track, and analyze equipment maintenance and failure history develop preventative maintenance plans. Maintain and update these maintenance plans.</li><li>Collaborate with management, operators, trades, and process experts to identify and execute improvement projects, which typically address: safety, reliability, sustainability, or production efficiency.</li><li>Evaluate critical equipment to determine need and business case for strategic spares (life cycle cost, downtime cost).</li><li>Mentor and manage the reliability group intern; includes project development, technical help, and performance evaluation.</li><li>Other typical 'day-to-day' duties: leading risk assessments, process change management, reliability consultation, shutdown planning, information management, safety meetings, PHA/HAZOPS, research and trials for new technologies.</li><li><i>Equipment Experience:</i> Pressure vessels, heat exchangers, reactors, columns, column internals, valves, pumps, piping systems, piping components, process instrumentation, gasketing, and custom components</li><li><i>Materials Knowledge:</i> Tantalum, plastics &amp; fluoropolymers (PTFE/PFA/PVDF/etc), stainless steel, graphite, carbon fiber, duplex stainless, nickel alloys, carbon steel, zirconium, fiberglass (FRP), dual-laminate, acid-resistant brick lining systems</li></ul>		
<b>Manufacturing Engineer Intern</b> - Northern Star Industries: BOSS Snowplow	2010	Iron Mountain, MI
<ul style="list-style-type: none"><li>Reduced costs, enhanced safety, and standardized work by optimizing manufacturing cell workflows with Method Sheets and Job Hazard Analyses.</li><li>Improved worker safety, ergonomics, and productivity through researching new tools and tooling</li><li>Worked on a team devising a transportation system to increase safety, speed, and ease of moving finished goods</li><li>Participated in multiple lean manufacturing Kaizen events focused on improving productivity and safety</li></ul>		
<b>Popcorn Vendor Extraordinaire</b> - Jumpin' Kernels Kettle Corn, LLC	2004-2012	Gaylord, MI
<ul style="list-style-type: none"><li>Pop and sell classic and specialty kettle corn by interacting with potential and present customers</li><li>Troubleshoot and repair equipment, often unplanned and on-the-spot</li><li>Business support through graphic design (marketing material, website content) and managing supplies, accounting, payroll</li></ul>		
<b>Handyman</b> - Mr. General Repair, LLC	1999-2012	Gaylord, MI
<ul style="list-style-type: none"><li>Interior remodeling through finish &amp; rough carpentry, painting, drywall, kitchen &amp; bath, flooring, and appliance installation</li><li>Exterior work including roofing, painting, siding, landscaping, and snow removal</li><li>Managed small work crew (2-4) on some jobs</li></ul>		

## Education:

<b>Michigan Technological University</b>	2007-2011	Houghton, MI
<ul style="list-style-type: none"><li>Bachelor of Science - Mechanical Engineering 3.8 GPA (<i>magna cum laude</i>)</li></ul>		

## Skills and Attributes

- SixSigma Greenbelt (DMAIC). Trained by ABS Consulting in Root Cause Investigation. Completed ASM International's 'Corrosion' Course. Member of Materials Technology Institute (MTI). Situational Leadership. MBTI Profile = ISFJ
- Software:* MS Office, SAP R/3, PI System, UGNX, Crystal Ball (Monte Carlo), Minitab, MATLAB, Adobe Acrobat
- Volunteered on many disaster relief trips. Enjoy exercise, family time, playing sports, woodworking, and wrenching.